Amendments to the Claims

Please amend claims 1, 6 and 8.

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) An electromigration test apparatus having:

a direct-current (DC) voltage source;

an AC alternating-current (AC) voltage source;

a circuit having at least one conductive structure to be tested, which is electrically coupled to the DC source and the AC voltage source, the DC source exposes the conductive structure to a DC current in order to cause electromigration in the conductive structure, the AC source exposes the conductive structure to an AC current in order to heat the conductive structure to a predetermined temperature, wherein the AC current is independent of the DC current and is superposed on the DC current; and

a measuring device, which is set up in such a way that the measuring device detects an electrical parameter which is indicative of electromigration in the conductive structure to be

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the direct current source being set up to expose the conductive structure to conditions which accelerate electromigration,

the AC voltage source being set up in such a way that the AC voltage source exposes the conductive structure to be tested to an alternating current, independently of a direct current of the direct current source and thus heats the conductive structure to be tested to a predetermined temperature that can be set.

- 2. (Previously presented) The apparatus according to Claim 1, the electrical parameter being a resistance of the conductive structure to be tested.
- 3. (Previously presented) The apparatus according to Claim 1, which furthermore has an evaluation unit for determining an electrical power, the evaluation unit having a voltage measuring device and a current measuring device which are implemented in the circuit in such a way that, by means thereof, a root-mean-square current through the conductive structure to be tested and a root-mean-square voltage across the conductive structure to be tested can be detected.

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- 4. (Previously presented) The apparatus according to Claim 1, a control device being provided, which is set up in such a way that the control device controls the AC voltage source in such a way that the temperature of the conductive structure to be tested can be kept constant.
- 5. (Previously presented) The apparatus according to Claim 1, the conductive structure to be tested being arranged on or in a semiconductor wafer.
- 6. (Currently Amended) The apparatus according to Claim 1, the alternating-current source and the direct-current source being integrated in one a pulse generator.
- 7. (Previously presented) The apparatus according to Claim 1, which furthermore has a heating furnace set up in such a way that the heating furnace heats the conductive structure to be tested.
- 8. (Currently amended) A Method for testing a conductive structure for electromigration, having the following steps: electrically coupling a conductive structure to be tested to an electrical circuit electrically coupled to a direct-current

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source and an alternating-current source;

supplying the conductive structure to be tested with a direct-

current which causes the electromigration within the conductive

structure to be tested;

heating the conductive structure to be tested [[-]]by means of

the alternating-current to a predetermined temperature which can

be set, the alternating-current being is independent of the

[[a]] direct-current and is superposed on the direct-current,

the direct current bringing about the electromigration within

the conductive structure to be tested; and

detecting an electrical parameter which is indicative of the

electromigration within the conductive structure to be tested.

9. (Previously presented) The method according to Claim

8, a resistance of the conductive structure to be tested being

detected as the electrical parameter.

10. (Previously presented) The method according to Claim

8, in which, as further steps, a root-mean-square current in the

conductive structure to be tested and a root-mean-square voltage

across the conductive structure to be tested are detected and an

electrical power is determined therefrom.

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- 11. (Previously presented) The method according to Claim 8, the temperature of the conductive structure to be tested being regulated to a constant value by means of the-an evaluation unit.
- 12. (Previously presented) The method according to Claim 8, the conductive structure to be tested being formed on or in a semiconductor wafer.